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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/820,648	04/08/2004	Ata Zadehgoi	P18563 (INTEL29)	8505
6980	7590	07/28/2005	EXAMINER	
TROUTMAN SANDERS LLP BANK OF AMERICA PLAZA, SUITE 5200 600 PEACHTREE STREET, NE ATLANTA, GA 30308-2216			GLENN, KIMBERLY E	
			ART UNIT	PAPER NUMBER
			2817	

DATE MAILED: 07/28/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/820,648

Applicant(s)

ZADEHGOL ET AL.

Examiner

Kimberly E. Glenn

Art Unit

2817

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-28 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-4, 7-16 and 19-28 is/are rejected.
- 7) ☒ Claim(s) 5, 6, 17 and 18 is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. ____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date ____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: ____.

DETAILED ACTION

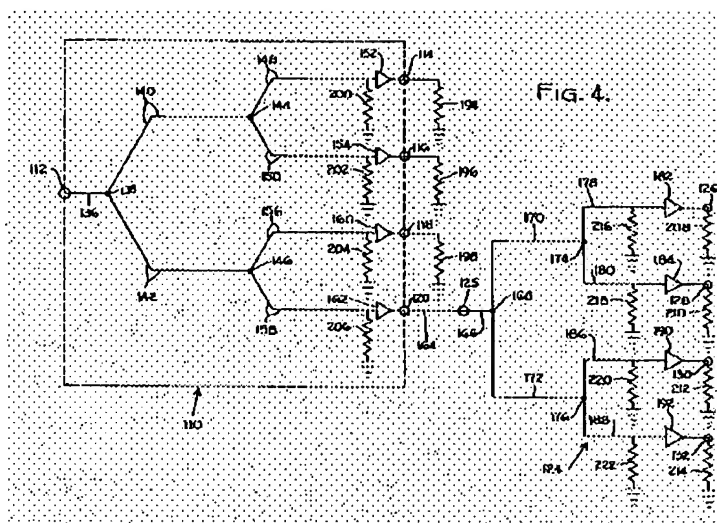
Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-4, 7-12, 14-16 and 19-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Barczys US Patent 4,885,557 in view of Abouzahara et al US Patent 4,947,143.

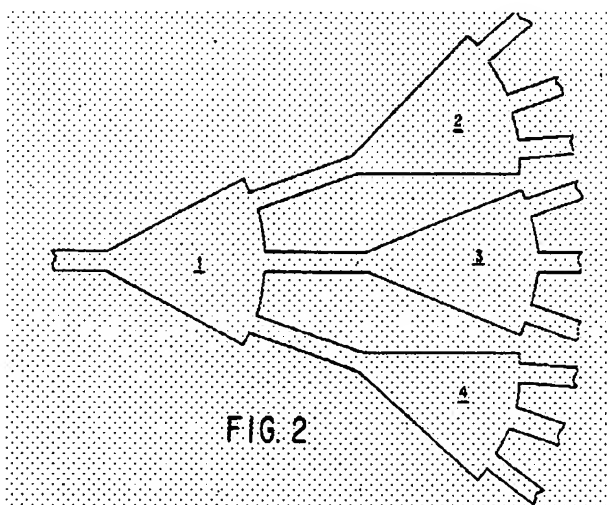
Barczys disclose in figure a first multicoupler 100 connected to an input signal 112 and having a first output 118 and a second output 120; a termination resistor 204 connected to the first output and second multicoupler connected to the second output 120 and having a plurality of outputs. A plurality of amplifiers are connected to the plurality of outputs. The amplifiers are connected to matching resistors. Inherently, transmission lines connected between the amplifier and the matching resistors.



Thus, all the limitation of the claims are shown with the exceptions of the output having equal phase and equal magnitude, the pie type impedance matching body section having a wedge shaped geometry and the pie type impedance matching section comprising a conductive material.

or "pie"

Abouzahara et al disclose in figure 2 a fan shaped divider/combiner comprising a plurality of ports (1-4). Abouzahara et al disclose in the abstract the planar configuration provides to a balanced phase and amplitude outputs.



One of ordinary skill in the art would have found it obvious to replace the multicoupler of Barczys with the divider/combiner as taught by Abouzahara et al since the examiners takes notice of the equivalence of the multicoupler and the divider/combiner for their use in the art and selection of any of these known equivalents to provide a splitting means would be within the level of ordinary skill in the art.

Claim 13 is rejected under 35 U.S.C. 103(a) as being unpatentable over Barczys US Patent 4,885,557 in view of Abouzahara et al US Patent 4,947,143 in combination with Leonakis US Patent 5,025,233.

See the rejection of claims 1-4, 7-12, 14-16 and 19-28 for detailed discussion of Barczys and Abouzahara et al references.

Thus, Barczys in view of Abouzahara et al are shown to teach all the limitations of the claims with the exception of the conductive material of the pie type impedance matching section being copper.

Leonakis disclose a power divider composed of a copper stripline. (Column 3; line 18-28)

One of ordinary skill in the art would have found it obvious to use copper for the conductive material of the divider/combiner of Schellenberg as taught by Leonakis. It has been held to be within the general skill of one of ordinary skill in the art to select a known material on the basis of its suitability for the intended use as signal conducting means.

Allowable Subject Matter

Claims 5, 6, 17 and 18 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. The prior art of record does not disclose or fairly teach the termination section comprising of resistor and capacitor connected to each other.

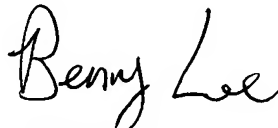
Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Seely et al US Patent 6,333,682, Sasser et al US Patent 4,599,584, Quine US Patent 4,291,278, Schellenberg et al US Patent 4,835,496 and O'Shea US Patent 4,583,061.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kimberly E. Glenn whose telephone number is (571)-272-1761. The examiner can normally be reached on Monday-Friday 7:30 to 4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pascal can be reached on (571)-272-1769. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



BENNY T. LEE
PRIMARY EXAMINER
ART UNIT 2817

Kimberly E Glenn
Examiner
Art Unit 2817

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